

HEAT EXCHANGERS AND FINS FOR HEAT EXCHANGERS AND  
METHODS FOR MANUFACTURING THE SAME

ABSTRACT OF THE DISCLOSURE

5 A method for manufacturing a fin for a heat exchanger includes the steps of  
forming an intermediate pre-formed plate, which has adjacent zigzag strips, by passing a flat  
plate material between a pair of first processing rollers, and forming a fin by passing the  
intermediate pre-formed plate between a pair of second processing rollers to bend the zigzag  
strips at a portion connecting adjacent zigzag strips. The fin includes a plurality of waving strips  
10 arranged adjacent to each other in the transverse direction, which are offset in the longitudinal  
direction. The adjacent waving strips are connected only between the flat portions of the waving  
strips at a connection length less than or equal to a plate thickness. The fin may be manufactured  
readily and inexpensively. A heat exchanger using the fin as an inner or outer fin may exhibit  
superior performance.

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